

DENNIS P. CURRAN et.al.
Serial No.: 10/629,432

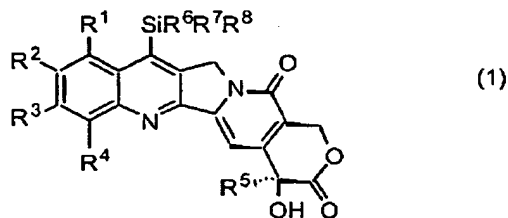
2

AMENDMENTS TO THE CLAIMS:

This listing of claims, in which claims 1-13 were previously canceled without prejudice and claims 14, 26 and 28-40 are currently amended will replace all prior versions and listings in the application:

1.-13. Canceled.

14. (Currently Amended) A method of treating a cancer patient with malignant melanoma, stomach cancer, breast cancer, ovarian cancer, lung cancer, colorectal cancer or [[a]] leukemia patient, comprising the step of administering a pharmaceutically effective amount of a compound of Claim 1 having the following formula or a pharmaceutically acceptable salt thereof:



wherein R^1 and R^2 are independently the same or different and are hydrogen, an alkyl group, an aminoalkyl group, an alkylaminoalkyl group, a haloalkyl group, a hydroxyalkyl group, an alkenyl group, an alkynyl group, an alkoxyl group, an aryloxy group, a carbamoyloxy group, a halogen, a hydroxyl group, a nitro group, a cyano group, an azido group, a formyl group, a hydrazino group, $-C(O)R^f$, wherein R^f is an alkyl group, a haloalkyl group, an alkoxyl group, an amino group or a hydroxyl group, an amino group, an alkylamino group, a dialkylamino group, $-SR^c$, wherein R^c is hydrogen, $-C(O)R^f$, an alkyl group, or an aryl group, $-OC(O)R^d$ or $-OC(O)OR^d$, wherein R^d is an alkyl group; or R^1 and R^2 together form a group of the formula $-O(CH_2)_nO-$ wherein n represents the integer 1 or 2;

DENNIS P. CURRAN et.al.
Serial No.: 10/629,432

3

R³ is H, F, a halogen atom, a nitro group, an amino group, a hydroxyl group, or a cyano group; or R² and R³ together form a group of the formula -O(CH₂)_nO- wherein n represents the integer 1 or 2;

R⁴ is H, F, a C₁₋₃ alkyl group, a C₂₋₃ alkenyl group, a C₂₋₃ alkynyl group, or a C₁₋₃ alkoxyl group;

R⁵ is a C₁₋₁₀ alkyl group, or a propargyl group; and

R⁶, R⁷ and R⁸ are independently a C₁₋₁₀ alkyl group, a C₂₋₁₀ alkenyl group, a C₂₋₁₀ alkynyl group, an aryl group or a -(CH₂)_NR⁹ group, wherein N is an integer within the range of 1 through 10 and R⁹ is a hydroxyl group, alkoxy group, an amino group, an alkylamino group, a dialkylamino group, a halogen atom, a cyano group or a nitro group;

wherein provided that wherein one of R¹, R², R³ and R⁴ is H, a halogen, an alkyl group, an amino group or a nitro group at least one of R¹, R², R³ and R⁴ is not H, a halogen, or an alkyl group, an amino group or a nitro group.

15. (Previously presented) The method of Claim 14, wherein R⁴ is H.

16. (Previously presented) The method of Claim 14, wherein R¹ and R² are independently the same or different and are H, a hydroxy group, a halogen, an amino group, a nitro group, a cyano group, a C₁₋₃ alkyl group, a C₂₋₃ alkenyl group, a C₂₋₃ alkynyl group or a C₁₋₃ alkoxyl group.

17. (Previously presented) The method of Claim 14, wherein R¹ and R² are independently the same or different and are a C₁₋₃ perhaloalkyl group, a C₁₋₃ aminoalkyl group, a C₁₋₃ alkylamino group or a C₁₋₃ dialkylamino group.

18. (Previously presented) The method of Claim 14, wherein R¹ and R² are independently the same or different and are H, a methyl group, an amino group, a nitro group, a cyano group, or a hydroxyl group.

DENNIS P. CURRAN et.al.
Serial No.: 10/629,432

4

19. (Previously presented) The method of Claim 14, wherein R^1 and R^2 are independently the same or different and are a methylamino group, a dimethylamino group, an ethylamino group, a diethylamino group, a hydroxymethyl group, an aminomethyl group, a methylaminomethyl group, or a dimethylaminomethyl group.

20. (Previously presented) The method of Claim 14, wherein R^3 is F, an amino group, or a hydroxyl group.

21. (Previously presented) The method of Claim 14, wherein R^6 , R^7 and R^8 are independently the same or different and are a C1-6 alkyl group, a phenyl group or a $-(CH_2)_N R^9$ group, wherein N is an integer within the range of 1 through 6 and R^9 is a hydroxyl group, alkoxy group, an amino group, an alkylamino group, a dialkylamino group, a halogen atom, a cyano group or a nitro group.

23. (Previously presented) The method of Claim 14, wherein R^6 , R^7 and R^8 are methyl groups.

24. (Previously presented) The method of Claim 14, wherein R^2 and R^3 form a methylenedioxy group, or a 1,2-ethylenedioxy group.

25. (Previously presented) The method of Claim 14, wherein R^3 is F.

26. (Currently Amended) The method of Claim 14, wherein the compound is ~~7-trimethylsilyl-camptothecin~~, 7-trimethylsilyl-10-acetoxy camptothecin, 7-trimethylsilyl-10-hydroxy camptothecin, ~~7-trimethylsilyl-11-fluoro-camptothecin~~, ~~7-trimethylsilyl-9-fluoro-camptothecin~~, ~~7-trimethylsilyl-10-fluoro-camptothecin~~, ~~7-trimethylsilyl-10-amino-camptothecin~~, ~~7-trimethylsilyl-11-amino-camptothecin~~, 7-trimethylsilyl-11, 12-difluoro camptothecin, 7-trimethylsilyl-9, 10-difluoro camptothecin, 7-trimethylsilyl-10-amino-11-fluoro camptothecin, ~~7-tert-butyl dimethylsilyl-camptothecin~~, 7-tert-butyl dimethylsilyl-10-acetoxy camptothecin, 7-tert-butyl dimethylsilyl-10-hydroxy camptothecin, 7-dimethyl-3-cyanopropylsilyl camptothecin, 7-dimethyl-3-halopropylsilyl camptothecin,

DENNIS P. CURRAN et.al.
Serial No.: 10/629,432

5

7-triphenylsilyl camptothecin, ~~7-triethylsilyl camptothecin~~, 7-dimethylnorpinylsilyl camptothecin.

27. (Previously presented) The method of Claim 14, wherein R^2 is a hydroxy group.

28. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^4 is H.

29. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^1 is H, a hydroxyl group, a halogen, an amino group, a nitro group, a cyano group, a C₁₋₃ alkyl group, a C₂₋₃ alkenyl group, a C₂₋₃ alkynyl group or a C₁₋₃ alkoxy group.

30. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^1 is a C₁₋₃ perhaloalkyl group, a C₁₋₃ aminoalkyl group, a C₁₋₃ alkylamino group or a C₁₋₃ dialkylamino group.

31. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^1 is H, a methyl group, an amino group, a nitro group, a cyano group, or a hydroxyl group.

32. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^1 is a methylamino group, a dimethylamino group, an ethylamino group, a diethylamino group, a hydroxymethyl group, an aminomethyl group, a methylaminomethyl group, or a dimethylaminomethyl group.

33. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^3 is F, an amino group, or a hydroxyl group.

34. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^5 is an ethyl group.

35. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^6 , R^7 and R^8 are independently the same or different and are a C₁₋₆ alkyl group, a

DENNIS P. CURRAN et.al.
Serial No.: 10/629,432

6

phenyl group or a $-(CH_2)_N R^9$ group, wherein N is an integer within the range of 1 through 6 and R^9 is a hydroxyl group, alkoxy group, an amino group, an alkylamino group, a dialkylamino group, a halogen atom, a cyano group or a nitro group.

36. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^6 , R^7 and R^8 are methyl groups.

37. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^2 and R^3 form a methylenedioxy group, or a 1,2-ethylenedioxy group.

38. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R^3 is F.

39. (Currently Amended) The ~~compound~~ method of Claim 27, wherein the compound is 7-trimethylsilyl-10-hydroxy camptothecin or 7-tert-butyldimethylsilyl-10-hydroxy camptothecin.

40. (Currently Amended) The ~~compound~~ method of Claim 27, wherein the compound is 7-tert-butyldimethylsilyl-10-hydroxy camptothecin.